



# Office Action Summary

Application No.

09/348,320

Applicant(s)

PIERONI ET AL.

Examiner

Charles D. Garber

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 07 July 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-3 and 19-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 19-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 18) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: \_\_\_\_\_







Pieroni et al. as discussed above disclose all the limitations as in the instant invention except for expressly teaching monitoring the pressure within said smoke outlet of said smoke producing chamber and discharging said pressure to the atmosphere when said pressure exceed a predetermined pressure level

Malcosky discloses an apparatus for injecting tracer gas into a pipeline. The reference teaches relief valves 108 or 122 in the lines 104 or 118 carrying tracer compounds to a pipeline 136 under test (see figure 1 and column 9 lines 10-30). Relief valves are well known to discharge pressure at a predetermined pressure level.

The claim recitation "monitoring the pressure within said smoke outlet of said smoke producing chamber and discharging said pressure to the atmosphere when said pressure exceed a predetermined pressure level" is only supported in the specification insofar as pressure check valve 40 of the instant invention will "crack" at about 1 PSI and vent to atmosphere via an orifice. Pressure "monitoring" would ordinarily be associated with some sort of pressure sensing, measuring or displaying means. There was no pressure sensing, measuring or displaying means associated with the disclosed vent so the recitation appears to be directed simply to a relief valve of some sort.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to include a relief or pressure check valve in order to prevent pressure build up that may effect proper operation of fluid systems as is widely known in the art.

Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pieroni et al. as modified by Malcosky et al. and applied to claim 22 above and further in view of Seelback

Pieroni et al. as modified by Malcosky et al teach all the limitations as in the instant invention except for expressly teaching an accumulator between the smoke generator outlet and atmosphere, wherein the accumulator condenses and collects the smoke.

Seelback discloses a method and apparatus for smoke treating foodstuffs wherein there is taught a condenser 160 between the smoke chamber 10 and vent 169 for condensing the smoke.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to condense waste smoke so that obscuring smoke is not dumped into the environment.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pieroni et al. in view of Ireland et al.

Pieroni et al. disclose all the limitations as in the instant invention except for expressly teaching monitoring the presence of gas, energizing the heating grid when the gas is present and de-energizing the grid when the gas is absent. The specification does not actually disclose presence or absence of gas, only that a pressure switch energizes or de-energizes when the pressure changes from a normal condition wherein the device is normally at atmospheric pressure or slightly above (by virtue of the

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pressure check valve 40 if the line to system under test 4 is somehow blocked) to a higher pressure from the gas source 25 or 60. This implies that some residual gas will always be present in the line at or near atmospheric pressure.

Ireland et al. (Ireland) disclose a heating element for heating fluids, either gases or liquids wherein the element is a wire mesh 1. Ireland teaches "Mesh failure due to flow restriction may be prevented by the use of a pressure actuated switch which only permits current to be supplied to the mesh when the pressure difference across the mesh faces, caused by the flow through the mesh, exceeds a prescribed value." (column 2 lines 25-31) and "A safety device, for example incorporating a pressure switch as described above, could be fitted to shut off the current supply to the heater in the event of a blockage." (column 6 lines 57-60)

It would have been obvious to one having ordinary skill at the time the invention was made to permit current to the heating element when there is sufficient flow for safety and to prevent failure.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references cited on the accompanying form PTO-892 are listed to show examples of state of the art methods and apparatus for smoke generators, which share one or more features in common with the instant invention.




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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles D. Garber whose telephone number is (703) 308-6062. The examiner can normally be reached on 6:30 am - 4:pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (703) 305-4705. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7725 for regular communications and (703) 308-7725 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3431.

cdg  
April 19, 2001

  
**HEZRON WILLIAMS**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2800**